

## Subcommittee on Ground Water

Tuesday, January 16, 2018  
Meeting Minutes  
Conference Call  
USGS Headquarters, Reston, VA

Time	Topic	Discussion Leader
Noon	<p>Welcome and Attendance</p> <ul style="list-style-type: none"> <li>• <b>Bill Cunningham, federal co-chair, USGS representative*</b></li> <li>• Bob Schreiber, non-federal co-chair, ASCE representative*</li> <li>• <b>Lauren Schapker, executive secretary, NGWA</b></li> <li>• Brandon Kernen, ASDWA representative, Darrel Osterhoudt, alternate*</li> <li>• Cary Betz, State Representative*</li> <li>• Chris Carlson, Forest Service*</li> <li>• Dave Langseth, NGWA representative*</li> <li>• <b>Kara Goodwin, EPA representative*</b></li> <li>• <b>Mary Musick, GWPC representative*</b></li> <li>• <b>Dave Wunsch, AASG representative*</b></li> <li>• Jeffrey Davis, LBG Guyton</li> <li>• Janice Hiller, In-Situ</li> <li>• John Yellich, Michigan Geological Survey</li> <li>• <b>Jessica Lucido, USGS</b></li> <li>• Treasure Bailey, EPA Region 8</li> <li>• <b>Tim Parker, Parker Groundwater</b></li> <li>• <b>Daryll Pope, USGS</b></li> <li>• Mike Wireman, Granite Ridge Groundwater</li> <li>• <b>Dave Larson, Retired</b></li> <li>• <b>Joe Fillingham, WellIntel</b></li> <li>• Marian Singer, WellIntel</li> <li>• Kathleen Fultz, Water Quality Association</li> <li>• Chuck Job, NGWA</li> <li>• Rick Copeland, FL DEP</li> <li>• Doug Yeskis, USGS</li> <li>• Johanna Kovarik, Forest Service</li> <li>• <b>Candice Hopkins, USGS</b></li> <li>• Lori Huntoon, ASTM</li> <li>• Tom Nicholson, NRC</li> <li>• Joe Gurrieri, USFS</li> <li>• Mark Everett, LANL</li> <li>• Adrienne Bartlewitz, USGS</li> <li>• Lily Lee, WY DEQ</li> <li>• <b>Mike Woodside, USGS</b></li> </ul> <p><b>*Those names in bold represent attendees on the call.</b></p>	Bill
12:05	<p>Call Purpose</p> <ol style="list-style-type: none"> <li>1. Status Report: Cooperative Agreements/Program Board Meeting</li> </ol>	Bill

\* Voting organization representative/alternate per Terms of Reference

	<ol style="list-style-type: none"> <li>2. Status Report: NGWMN Portal</li> <li>3. ACWI Annual Meeting</li> <li>4. New Directions: Discussion Topics</li> <li>5. Outreach Report</li> </ol>	
	<b>Business Portion</b>	
12:07 P	<p>Approval of agenda – additions/deletions (Attachment 1) Opportunity to add to the agenda</p> <p>The agenda was approved without revision.</p> <p><b>Expected Outcome: Approve agenda</b></p>	Bill
12:09 P	<p>Approval of previous minutes (Attachment 2)</p> <p>Lauren reviewed the edits to the minutes she received prior to the call and the draft minutes were approved with comments incorporated.</p> <p><b>Expected Outcome: Approve minutes</b></p>	Bill
	<b>SOGW Work Items</b>	
12:10 P	<p>Status Report: Cooperative Agreements/Program Board Meeting</p> <p>Daryll reported that the program announcement closed in November. 26 proposals are currently under review for new and existing data providers. The Program Board will meet and rank proposals in Austin at the end of January—pending government funding.</p> <p>Though more proposals were received than money is available, most work will receive funding (pending the 2018 federal appropriations process).</p> <p>Meeting will be contingent on government funding.</p> <p>Daryll also informed the SOGW of new procedures surrounding grant approval. The new guidance specifies that all grants over \$50,000 need to be approved by Interior, which is likely to add time to the process, since most awards will be over \$50,000. This is not unique to NGWMN awards, but will apply to everything coming out of USGS.</p> <p><b>Expected Outcome: Information Exchange</b></p>	Daryll
12:15 P	<p>Status Report: NGWMN Portal</p> <ul style="list-style-type: none"> <li>• Status of ongoing work</li> <li>• Upcoming work</li> </ul> <p>Candice reported NHGS water level service parser has been completed, and NCDWR parsers now have additional water quality fields to their web services.</p> <p>In progress, they are working to get MN PCA getting lithology and construction service mapped and are finishing the new mediator component. Because of new mediator, all current parsers need to be migrated over.</p> <p><b>Expected Outcome: Information Exchange</b></p>	Candice

12:20P	<p>ACWI Annual Meeting – Jan 17-18, Reston, VA (SOGW Jan 17)</p> <ul style="list-style-type: none"> <li>Review and discussion of presentation for Annual Meeting (Attachment 3)</li> </ul> <p>Bill reported that the ACWI Annual Meeting will take place at USGS Headquarters on Wednesday and Thursday. SOGW is presenting at 9am ET on Wednesday. Lauren circulated the draft presentation that the SOGW will be giving. In addition to Bill, Lauren, Bob, Candice, and Daryll, several data providers will also be presenting.</p> <p>The SOGW reviewed the presentation and provided comments including: limiting the amount of background material provided, the procedure for discussing new topics, and reviewing the revised Terms of Reference.</p> <p>Daryll noted each data providers will each be addressing different topics: TX and UT will be talking about benefits, CO is a new data provider, MT will focus on how they've used the data, and then MN will talk about working with other agencies.</p> <p>Bill noted that remote information is not yet available, but will be sent as soon as its circulated.</p> <p><b>Expected Outcome: Information Exchange</b></p>	Bill/Bob
12:30P	<p>New Directions: Discussion Topics</p> <ul style="list-style-type: none"> <li>Citizen Science Groundwater Levels (Attachment 4)</li> <li>GW/SW Interaction</li> </ul> <p>Citizen Science: Bill reviewed the one-pager that he circulated on citizen science and suggested that this format be used to discuss each potential new topic, highlighted the need and potential outcomes.</p> <p>Bill cited the Aspen Institute report on how the NGWMN can contribute to an internet of water and how he sees citizen science as a potential way to expand the network or fill some gaps in the NGWMN.</p> <p>Could Subcommittee partner with NWQMC? Could it guide development of an app for anyone to submit a gw level measurement? Design a quality score for citizen science data?</p> <p>Feedback on Citizen Science:</p> <ul style="list-style-type: none"> <li>Dave W. suggested the definition of citizen science is important, which would have to be determined by the SOGW.</li> <li>Mary expressed concerns over NGWMN being used to warehouse information because of its design as a network of networks.</li> <li>Tim mentioned the Sonoma County example where there is a voluntary water level monitoring program. Citizens monitor 50-60 wells in the basin. They are called 'volunteer monitors' and are now trying something similar in the Santa Rosa plain. He noted developing protocol and sanitation are very important in this project, as well as managing liability.</li> <li>Joe F. mentioned how citizen science is applied in other fields and how there are often unexpected outcomes due to the quality of data and the passion among citizen scientists. He also talked about technology and how citizen science can be executed.</li> </ul>	Bill

	<ul style="list-style-type: none"> <li>• Dave W. questioned where the data would go, and whether the NGWMN is the best spot for it.</li> <li>• Bill reminded the group that the list of new topics are going to not only be related to the NGWMN, but also groundwater more broadly. Bill sees citizen science as related to NGWMN but not necessarily a part of it.</li> <li>• Jessica noted documenting data and data quality can be tagged so that methods/fitness for use is accounted for. Jessica said there are ways to incorporate it or keep it separate, as long as the tags are in place.</li> </ul> <p>Next step: To form a work group or subgroup on this topic.</p> <p>GW/SW Interaction: Tim teed up GW/SW interaction for discussion/development on a future call and agreed to frame the topic into a one-pager for expanded discussion on a future call. Mary Musick and Kara Goodwin volunteered to collaborate with Tim on the topic.</p> <p><b>Expected Outcome: Information Exchange; Discussion</b></p>	
12:50 P	Outreach Report	
	<p>Upcoming Outreach:</p> <ul style="list-style-type: none"> <li>• GWPC UIC Feb 11-15, Tulsa, OK: Focus on UIC topics, including ASR</li> <li>• Dave W mentioned an upcoming agency meeting at DGS where he will highlight NGWMN work</li> <li>•</li> </ul> <p>Other events?</p>	Various
	Adjourn	
1:00 P	Next Meeting—Tuesday, February 20, 2018	Bob
	SOGW Past Business/Parking Lot	